

PDR RID Report

Date Last Modified 7/11/95

Originator Gi-Kong Kim/Kathy LaPenta

Phone No 301-286-9427

Organization GSFC/902.3/TSDIS

E Mail Address gkim@ame.gsfc.nasa.gov

Document SDPS Presentation

RID ID PDR 373

Review SDPS

Originator Ref

Priority 1

Section

Page MH3-5

Figure Table

Category Name Design-Data Server

Actionee HAIS

Sub Category Capacity

Subject Storage sizing for GSFC, LaRC, and MSFC at Release A for TRMM support

Description of Problem or Suggestion:

Without going through sufficient analysis myself, the presented sizes of storage for distribution and working storage at GSFC, LaRC and MSFC do not seem to be adequate to support TSDIS during Release A time frame. This period being the instrument and algorithm checkout period, TSDIS will need to pull back data from EOSDIS for reprocessing and also the TRMM algorithm developers may request data product frequently. It is not clear if the system as presented can handle these types of demand in light of communications bandwidth (approximately 8 Mbps?) and 2x the data ingest ingest and production rate allocated to distribution capacity.

Originator's Recommendation

Need to prove the adequacy of the sizing either through analysis or preferably through a performance modeling study. The sizing figures would have to be changed depending on the outcome of this study.

GSFC Response by:

GSFC Response Date

HAIS Response by: T. Suhrstedt

HAIS Schedule

HAIS R. E. E. Dodge

HAIS Response Date 6/30/95

Based on our analysis, modeling, and prototyping to date, we are appropriately sized for Release A. We have a "two-times" distribution requirement provided and clarified by ESDIS during the PDR presentations. Our Release A daily data insert volumes used at PDR are 21 GBs of V0 data and 27.44 GBs of TRMM data.

The full details associated with the PDR sizing efforts are available within the March 1995 Release of the Science Data Processing Segment (SDPS) Segment/Element Design specification for the ECS Project (Reference #305-CD-002-002).

Status Closed

Date Closed 7/11/95

Sponsor Kobler

Attachment if any
